



August 3, 2006

DESIGN MEMORANDUM No. 06-04
TECHNICAL ADVISORY

TO: All Design, Operations, and District Personnel, and Consultants

FROM: /s/ Anthony L. Uremovich
Anthony L. Uremovich
Design Resources Engineer
Production Management Division

SUBJECT: Temporary Revetment Riprap Check Dam

EFFECTIVE: January 10, 2007, Letting

The weight (mass) of temporary revetment riprap check dam should be determined as described below.

1. English Units. The weight, W_{RR} , in tons, should be determined by using either of the formulas as follows:

$$\text{For 2-ft depth, } W_{RR} = 1.5 \left[\frac{a}{3} + \frac{(b+c)}{2} \right]$$

$$\text{For 3-ft depth, } W_{RR} = 1.5 \left[\frac{a}{2} + (b+c) \right]$$

2. Metric Units. The mass, M_{RR} , in megagrams, should be determined by using either of the formulas as follows:

$$\text{For 0.6-m depth, } M_{RR} = 1.8 [0.81a + 0.3645(b+c)]$$

$$\text{For 0.9-m depth, } M_{RR} = 1.8 [1.22a + 0.732(b+c)]$$

The coarse aggregate No. 5 and geotextile fabric required with this work are not separate pay items, therefore, quantities need not be determined.

Recurring Special Provision 205-R-528, and Recurring Plan Detail E 205-R-528d (205-R-528d) both attached hereto, should be called for beginning with the January 10, 2007, letting, and through the August 22, 2007, letting. Beginning with the September 19, 2007, letting, the recurring special provision will be incorporated into the INDOT *Standard Specifications*, and the recurring plan details will become INDOT *Standard Drawings*. The documents will then no longer be required to be called for in specific contracts.

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Attachment

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